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PEarlene^{*} SiPE MB02 Masterbatch

Product Description

PEarlene SiPE MB02 masterbatch is a free flowing, pelleted silicone gum masterbatch with a 50% loading of ultra high molecular weight silicone (polysiloxane) on a high density polyethylene (HDPE).

Key Features and Typical Benefits

- Typically improves scratch and mar resistance
- Lowers the surface friction of the extruded part
- Can help eliminate blooming as well as migration
- Generally increases fabrication line throughput
- Can help reduce extruder torque
- Can help reduce extruder head pressure
- Can help reduce energy consumption during processing

Typical Physical Properties

Appearance	White to off white pellets
Form	Approx., 5 x 5 mm
Siloxane Content (wt. %)	50 ±2
Bulk Density (g/l, @ 20°C)	590
MFI (2.16 kg load/190°C)	14
Volatile (wt, %)	< 0.8

Typical data are average data and actual values may vary.
Typical data shall not be used as product specifications.

*PEarlene is a trademark of Momentive Performance Materials Inc.

Momentive Performance Materials provides versatile materials as the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers

solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices.

From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.

Potential Applications

PEarlene SiPE MB02 masterbatch can be added to a wide range of polyethylenes at concentrations up to 1.6% (as masterbatch) and is an excellent candidate to consider for use in extrusion and injection molding applications to provide processing advantages as well as improve surface properties.

Product Availability

PEarlene SiPE MB02 masterbatch is available in 25.0 kg bags. A pallet normally holds 40 bags or 1000 kg of product.

Processing Recommendations

The PEarlene SiPE MB02 masterbatch is added to the formulation and typically processed on conventional equipment under the same processing conditions recommended for the base resins and/or compounds. No special conditions or process modifications are generally required. However, the PEarlene SiPE MB02 masterbatch must be melt processed under conditions that will assure a high level of homogeneity in the final product. It should be noted that it might be necessary to increase the extrusion speed and reduce machine temperature settings to get the full benefit of the additional throughput, which may become available when using this masterbatch.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.momentive.com or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC) and CareChem24 International also maintain an around-the-clock emergency service for all chemical products:

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E cs-na.silicones@momentive.com

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E cs-la.silicones@momentive.com

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Europe, Middle East, Africa and India

E cs-eur.silicones@momentive.com

T +00.800.4321.1000
T +31.164.225350

Pacific

E cs-ap.silicones@momentive.com

T +1.800.820.0202 **F** +81.276.31.6259
T +0.81.276.20.6182

Worldwide Hotline

T +1.607.786.8131 **F** +1.607.786.8309
T +1.800.295.2392

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